

Wednesday, May 1, 2024  
Time of Issue: 0800 hours IST  
(MORNING)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features:

#### Weather Systems and Forecast & Warnings:

- ❖ A cyclonic circulation lies over northeast Bangladesh and a trough runs from Bihar to Manipur across the cyclonic circulation over northeast Bangladesh in lower tropospheric levels. Another cyclonic circulation lies over northeast Assam in lower tropospheric levels. Under their influence:
  - ✓ Fairly widespread to widespread, light to moderate rainfall/snowfall accompanied with isolated **thunderstorm & lightning & gusty winds (30-50 kmph)** very likely over Arunachal Pradesh, Assam, Meghalaya, Sikkim, Nagaland, Manipur, Mizoram, Tripura during next 5 days with isolated **hailstorm** over Sikkim on 01<sup>st</sup> May, 2024.
  - ✓ **Isolated heavy rainfall** very likely over Arunachal Pradesh and Assam & Meghalaya during 01<sup>st</sup>-02<sup>nd</sup> May and over Nagaland, Manipur, Mizoram & Tripura during 01<sup>st</sup>-03<sup>rd</sup> May; with isolated **very heavy rainfall** over Arunachal Pradesh on 01<sup>st</sup> & 02<sup>nd</sup> May and Mizoram & Tripura on 02<sup>nd</sup> May and isolated **extremely heavy rainfall** very likely over Meghalaya on 02<sup>nd</sup> May, 2024.
- ❖ A Western Disturbance as a cyclonic circulation lies over north Pakistan and adjoining Jammu & Kashmir in lower & middle tropospheric levels. Under its influence:
  - ✓ **Strong surface winds (25-35 kmph)** very likely to prevail over Uttar Pradesh, Bihar and Haryana, Chandigarh & Delhi on 01<sup>st</sup> & 02<sup>nd</sup> May, 2024.
- ❖ A trough/wind discontinuity runs from southeast Madhya Pradesh to South Interior Karnataka in lower tropospheric levels. Under its influence; isolated to scattered, light to moderate rainfall accompanied with **thunderstorm & lightning** very likely over Kerala & Mahe and Tamil Nadu during next 7 days and Lakshadweep on 01<sup>st</sup> May, 2024.

#### Maximum temperature observation and forecast for next 5 days:

- ❖ Yesterday, maximum temperatures were in the range of 43-46°C over many parts of Gangetic West Bengal and Odisha; in some parts of Jharkhand, Telangana and Rayalaseema and in isolated pockets of Madhya Maharashtra; in the range of 40-43°C over many parts of Bihar, East Madhya Pradesh, Vidarbha and Chhattisgarh; in some parts of East Uttar Pradesh, Marathwada, Gujarat, Coastal Andhra Pradesh and Tamil Nadu and in isolated pockets of West Madhya Pradesh and North Interior Karnataka. These were above normal by 4-8°C in many parts of Gangetic West Bengal and Bihar; in some parts of Odisha and in isolated pockets of Sub-Himalayan West Bengal, Jharkhand, Gujarat, Konkan, Telangana and Kerala.

#### Heat Wave, Warm Night and Hot & Humid weather warning for next 5 days:

- ❖ **Heat Wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal; some parts of Odisha, Bihar; in isolated pockets of Sub-Himalayan West Bengal, Jharkhand on 01<sup>st</sup> & 02<sup>nd</sup> May and reduce in intensity thereafter with heat wave conditions in isolated pockets over the region.
- ❖ **Heat Wave to severe heat wave conditions** very likely to prevail in isolated pockets over Rayalaseema, Saurashtra during next 5 days.
- ❖ **Heat wave conditions** in isolated pockets over Telangana, Interior Karnataka, Coastal Andhra Pradesh & Yanam during next 5 days; over Kerala on 01<sup>st</sup> & 02<sup>nd</sup> May; over Konkan, Madhya Maharashtra, Marathwada on 01<sup>st</sup> May and Tamil Nadu during 01<sup>st</sup> -03<sup>rd</sup> May, 2024.
- ❖ **Hot and humid weather** very likely to prevail over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Saurashtra & Kutch and Karnataka during next 5 days; Konkan & Goa during 02<sup>nd</sup>-04<sup>th</sup> May; West Assam, Tripura on 01<sup>st</sup> May 2024.
- ❖ **Warm night** very likely to prevail over East Madhya Pradesh and North Interior Karnataka during next 5 days; over Odisha and Bihar on 01<sup>st</sup> & 02<sup>nd</sup> May; over Gangetic West Bengal on 01<sup>st</sup> May 2024.

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

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## Main Weather Observations:

- ❖ **Rainfall distribution** (from 0830 hours IST to 1730 hours IST of yesterday): at few places over Assam & Meghalaya, at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.
- ❖ **Significant amount of rainfall** (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): **NIL**
- ❖ Yesterday, **Heat Wave to severe heat wave conditions** prevailed in most parts over Gangetic West Bengal; in some parts over Bihar, Sub-Himalayan West Bengal, Jharkhand and Odisha and **Heat wave conditions** in isolated pockets over Konkan. **Heat wave to severe heat wave conditions have been prevailing over Odisha since 15<sup>th</sup>, Gangetic West Bengal since 17<sup>th</sup> April 2024.**
- ❖ **Minimum Temperature Departures (as on 30-04-2024):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Gangetic West Bengal; at isolated places over Bihar, Jharkhand, Madhya Maharashtra and Nagaland, Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at most places over Vidarbha, Karnataka and Kerala & Mahe; at many places over Sub-Himalayan West Bengal & Sikkim, Odisha, Chhattisgarh and Konkan & Goa; at a few places over East Uttar Pradesh, Assam & Meghalaya, Telangana and Tamil Nadu, Puducherry & Karaikal; at isolated places over East Madhya Pradesh, Saurashtra & Kutch and Rayalaseema. These were **markedly below normal (-5.1°C or less)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Punjab; at many places over Himachal Pradesh; at a few places over Haryana-Chandigarh-Delhi; **below normal (-1.6°C to -3.0°C)** at many places over West Rajasthan; at isolated places over East Rajasthan, Uttarakhand, West Uttar Pradesh and **near normal** over rest parts of the country. Yesterday, **the lowest minimum temperature of 13.2°C** was reported at **Amritsar (Punjab)** over the plains of the country.
- ❖ **Maximum Temperature Departures (as on 30-04-2024):** Maximum temperatures were **markedly above normal (5.1°C or more)** at most places over Gangetic West Bengal; at many places over Bihar; at a few places over Jharkhand and Sub-Himalayan West Bengal & Sikkim; **appreciably above normal (3.1°C to 5.0°C)** at few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; at isolated places over Odisha, Interior Karnataka, Rayalaseema, **above normal (1.6°C to 3.0°C)** at most places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Telangana, Konkan & Goa; at many places over Madhya Maharashtra, Kerala & Mahe; at isolated places over East Uttar Pradesh, Chhattisgarh, Saurashtra & Kutch and Andaman & Nicobar Islands. These were **markedly below normal (-5.1°C or less)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; **appreciably below normal (-3.1°C to -5.0°C)** at few places over Punjab and Himachal Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Rajasthan, Haryana-Chandigarh-Delhi, Himachal Pradesh; at isolated places over West Uttar Pradesh, Arunachal Pradesh, West Madhya Pradesh and **near normal** over rest parts of the country. Yesterday, **the highest maximum temperature of 47.2°C** was reported at **Kalaikunda (Gangetic West Bengal)** over the country.

### Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood now lies over north Pakistan and adjoining Jammu & Kashmir between 3.1 km & 5.8 km above mean sea level.
- ❖ The cyclonic circulation over northeast Assam & neighbourhood between 1.5 & 3.1 km above mean sea level persists.
- ❖ The cyclonic circulation over northeast Bangladesh extending upto 1.5 km above mean sea level persists.
- ❖ The trough from north Bihar to Manipur across Sub-Himalayan West Bengal, cyclonic circulation over northeast Bangladesh and south Assam at 0.9 km above mean sea level persists.
- ❖ The trough/wind discontinuity from southeast Madhya Pradesh to South Interior Karnataka across Vidarbha, Marathawada & North Interior Karnataka extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over south Tamil Nadu & neighbourhood at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over Southwest Arabian Sea & adjoining equatorial Indian Ocean extending upto 4.5 km above mean sea level persists.
- ❖ A fresh Western Disturbance is likely to affect Western Himalayan Region from the night of 03<sup>rd</sup> May, 2024.

### Weather Forecast for next 7 days (Upto 0830 hours IST of 08<sup>th</sup> May, 2024)

- ❖ Meteorological sub-division wise detailed 7 days rainfall forecast is given in Table-1.
- ❖ Fall in maximum temperatures by 2-3°C very likely over Northwest India during next 24 hours and rise by 2-3°C thereafter.
- ❖ Rise in maximum temperatures by 2-3 °C very likely over Central India during next 5 days.
- ❖ Rise in maximum temperatures by 2-3°C very likely over Gujarat state during next 2 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures very likely over rest parts of the country.

### Weather Outlook for subsequent 3 days (During 08<sup>th</sup>-10<sup>th</sup> May, 2024)

- ❖ Isolated to scattered light/moderate rainfall likely over Northwest, Northeast, central & south Peninsular India.
- ❖ Dry weather likely to prevail over rest parts of the country.

Table-1

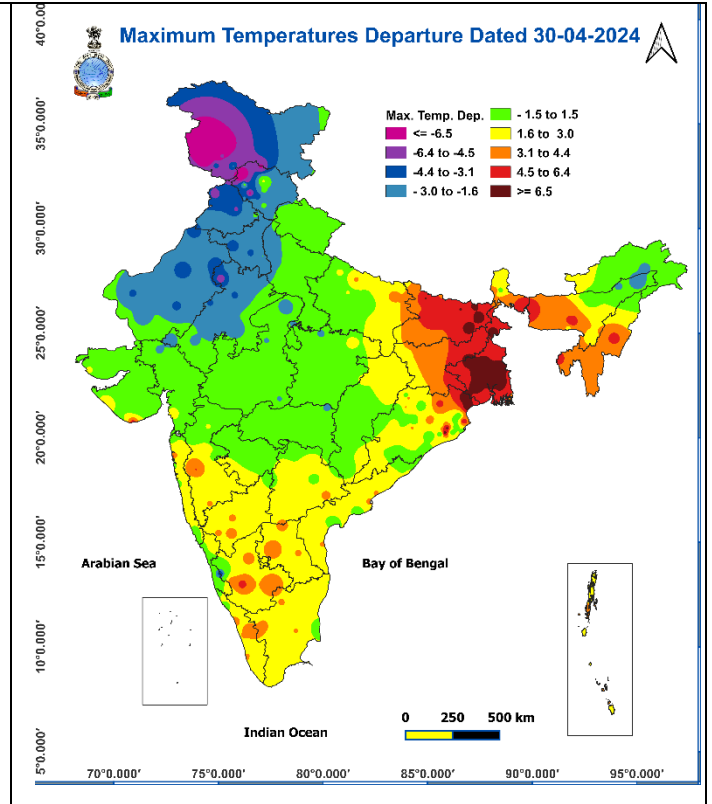
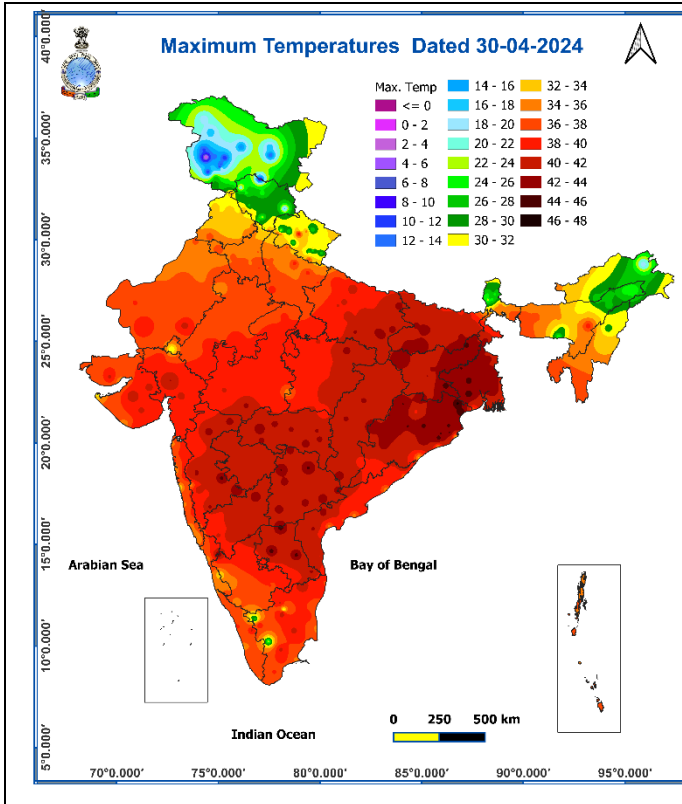
7 Days Rainfall Forecast								
S. No.	Subdivision	01-May	02-May	03-May	04-May	05-May	06-May	07-May
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	WS	WS	FWS	FWS	WS	WS	WS
3	ASSAM & MEGHALAYA	FWS	WS	FWS	SCT	FWS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	WS	FWS	SCT	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	SCT	ISOL	ISOL	SCT	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	ISOL	SCT	SCT
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
8	JHARKHAND	DRY	DRY	DRY	DRY	ISOL	SCT	SCT
9	BIHAR	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
12	UTTARAKHAND	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	DRY	ISOL	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	ISOL	DRY	ISOL	SCT	ISOL	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	DRY	SCT	SCT	ISOL	ISOL	ISOL
17	WEST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
18	EAST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
21	GUJARAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
27	CHHATTISGARH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
30	RAYALASEEMA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
35	KERALA & MAHE	ISOL	ISOL	ISOL	SCT	SCT	SCT	SCT
36	LAKSHADWEEP	SCT	DRY	DRY	DRY	DRY	DRY	DRY

Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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**Fig. 1: Maximum Temperatures**

**Fig. 2: Departure of Maximum Temperatures**



**Fig. 3: Minimum Temperatures**

**Fig. 4: Departure of Minimum Temperatures**

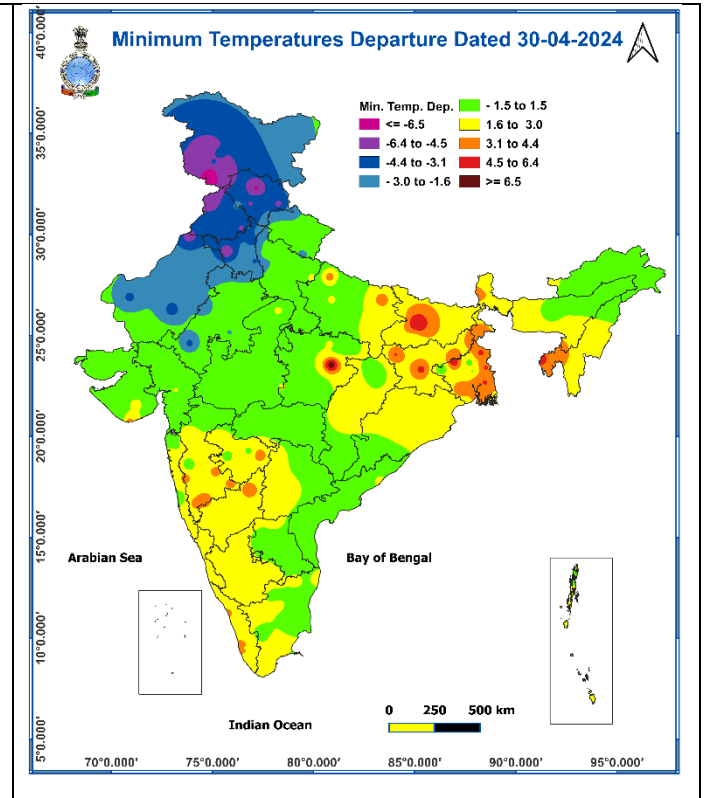
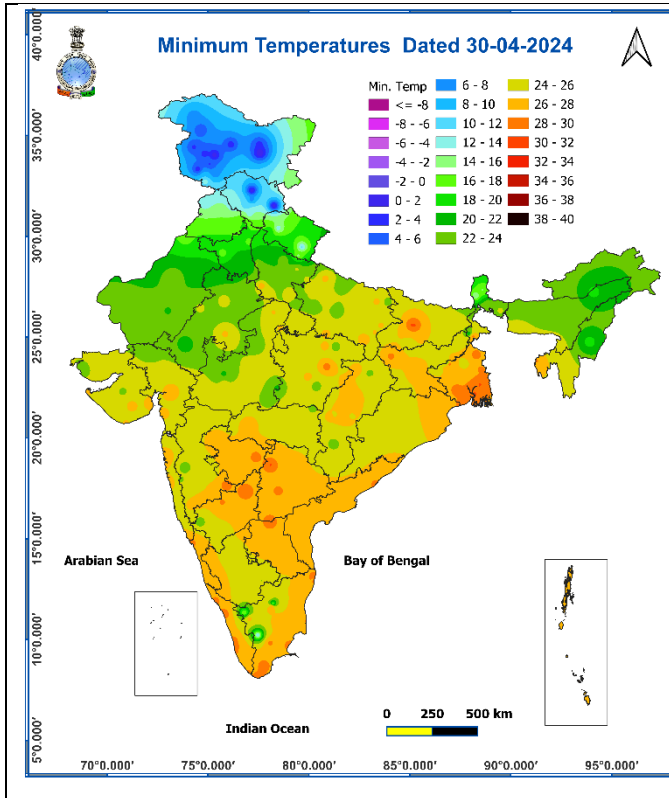
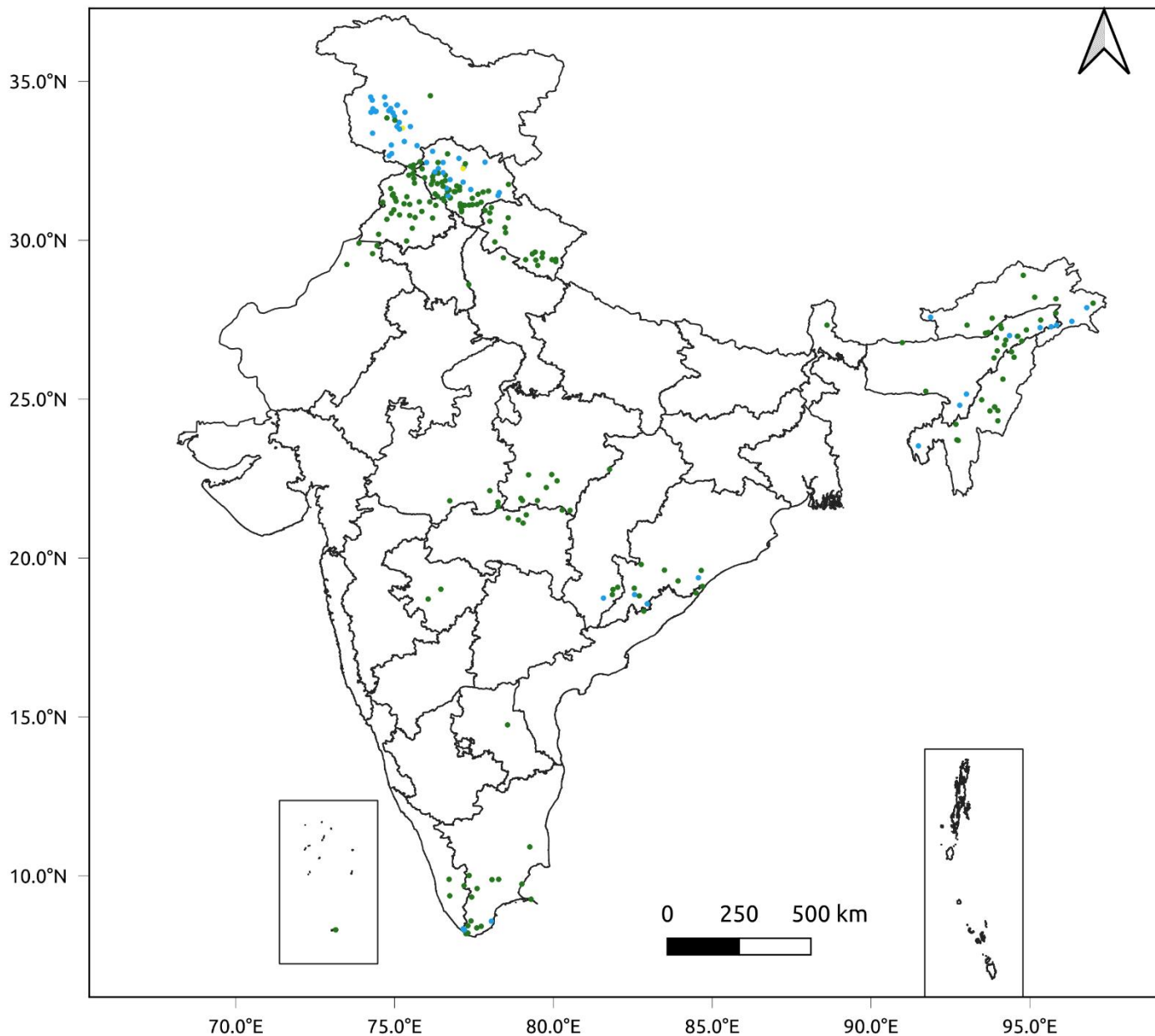


Fig. 5: Accumulated Rainfall (mm) during past 24 hours

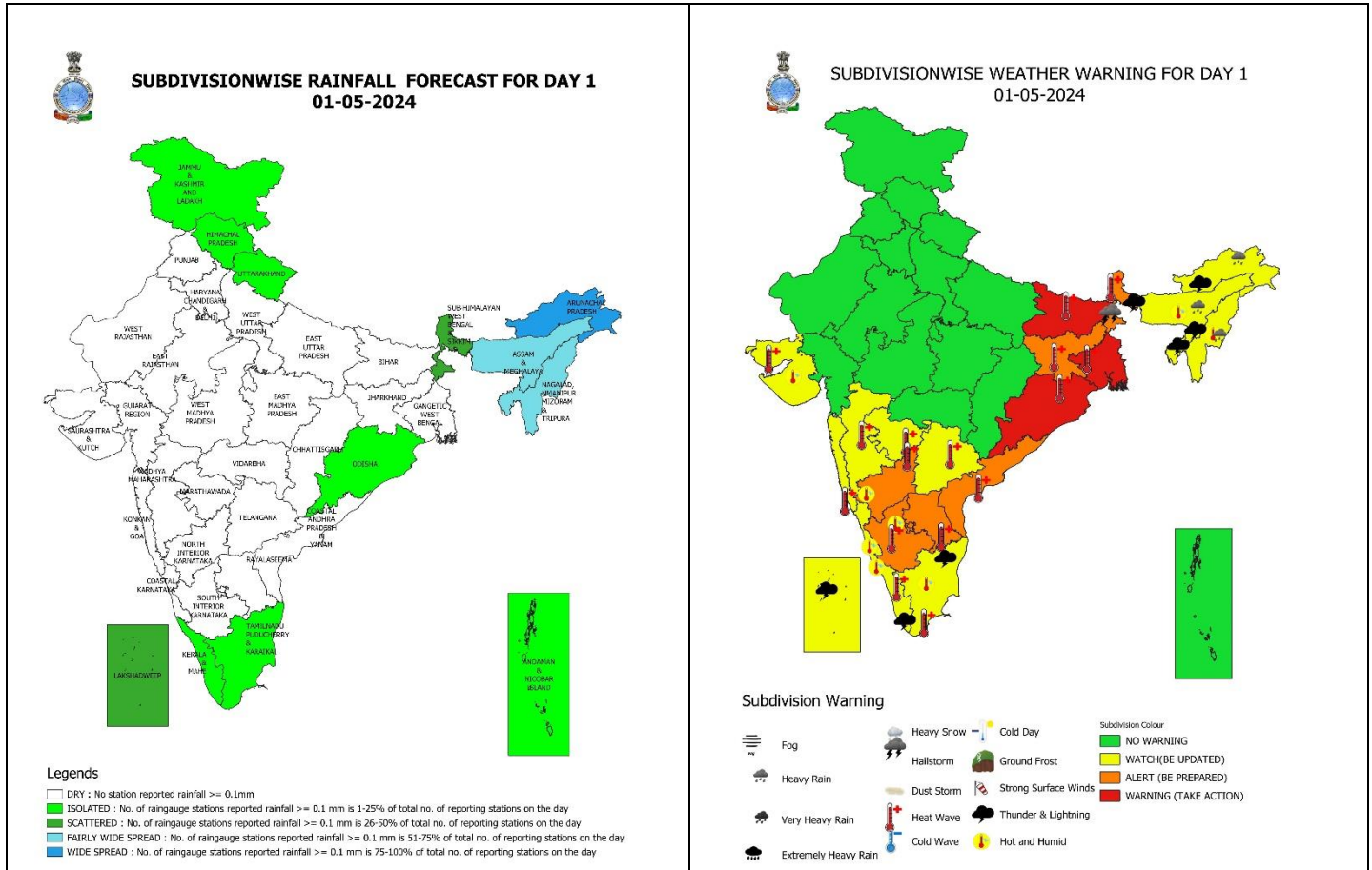


24 Hr cumulative rainfall recorded over different stations during 0830 IST of 29-4-2024 to 0830 IST of 30-4-2024



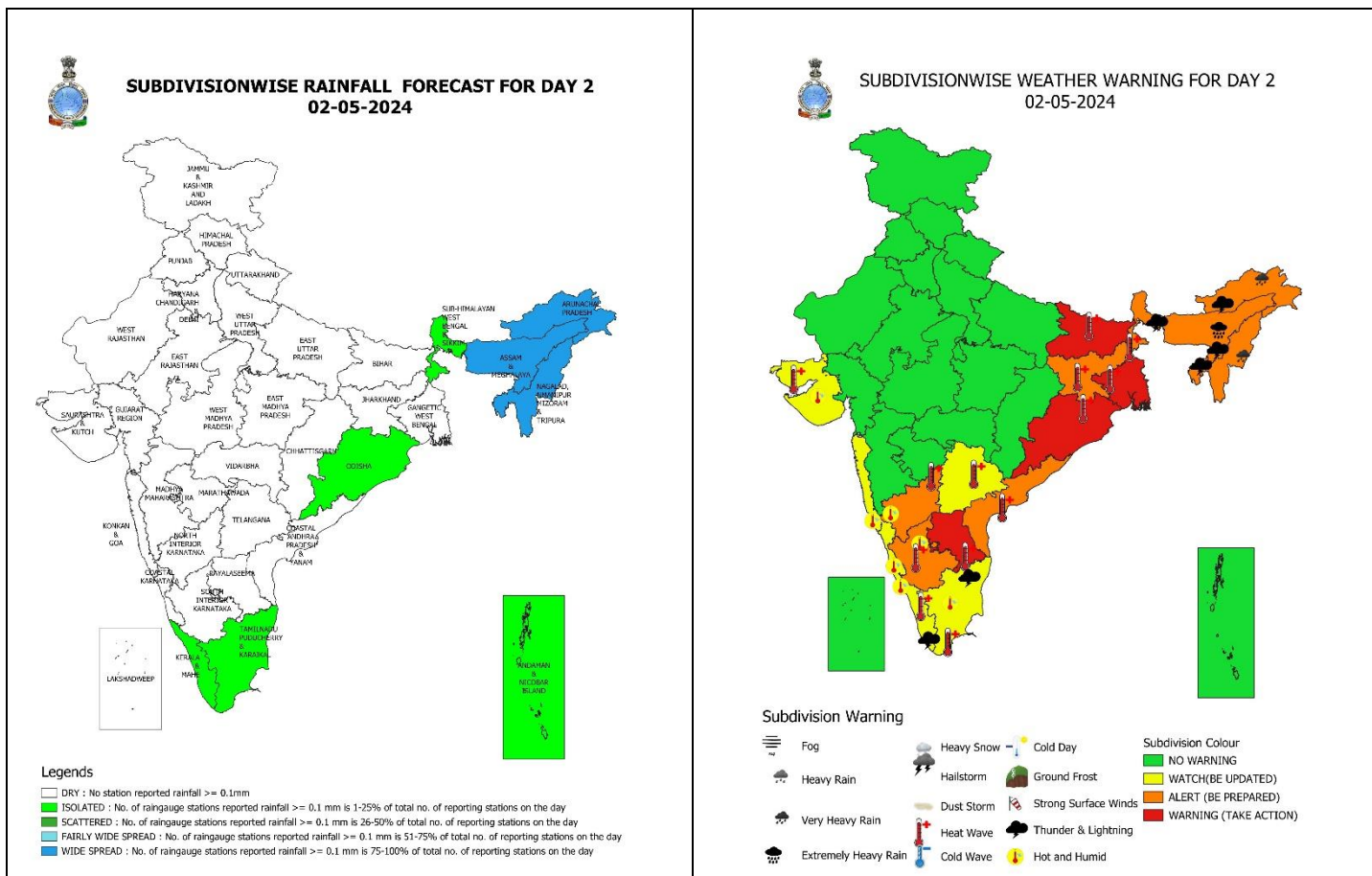
## Legends

- Very Light to Light Rainfall (0.1 - 15.5 mm)
- Moderate Rainfall (15.6 - 64.4 mm)
- Heavy Rainfall (64.5 - 115.5 mm)
- Very Heavy Rainfall (115.6 - 204.4 mm)
- Extremely Heavy Rainfall ( $\geq 204.5$  mm)



## 01 May (Day 1):

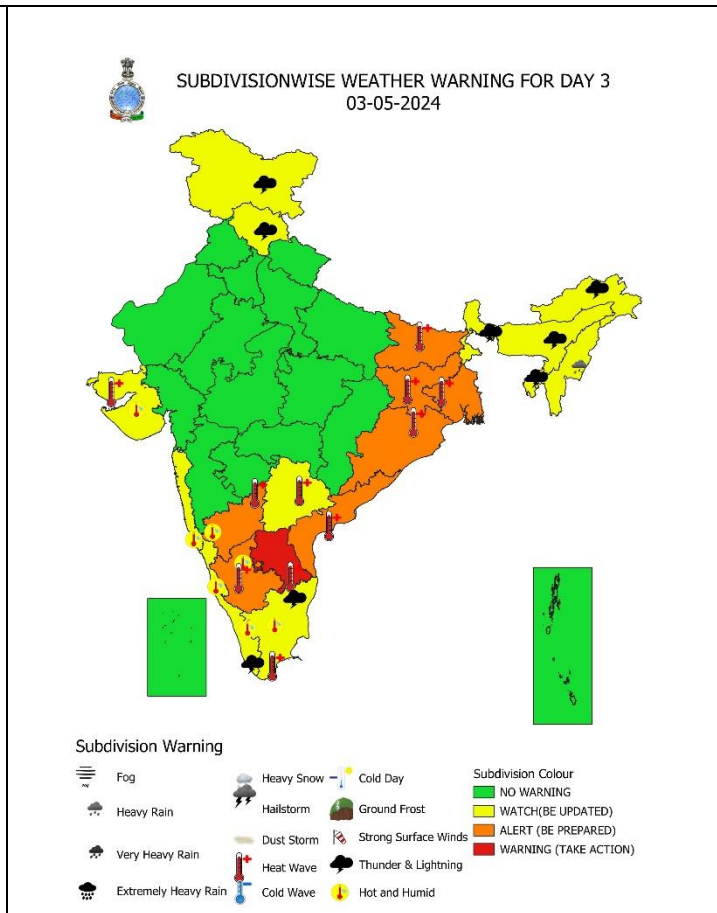
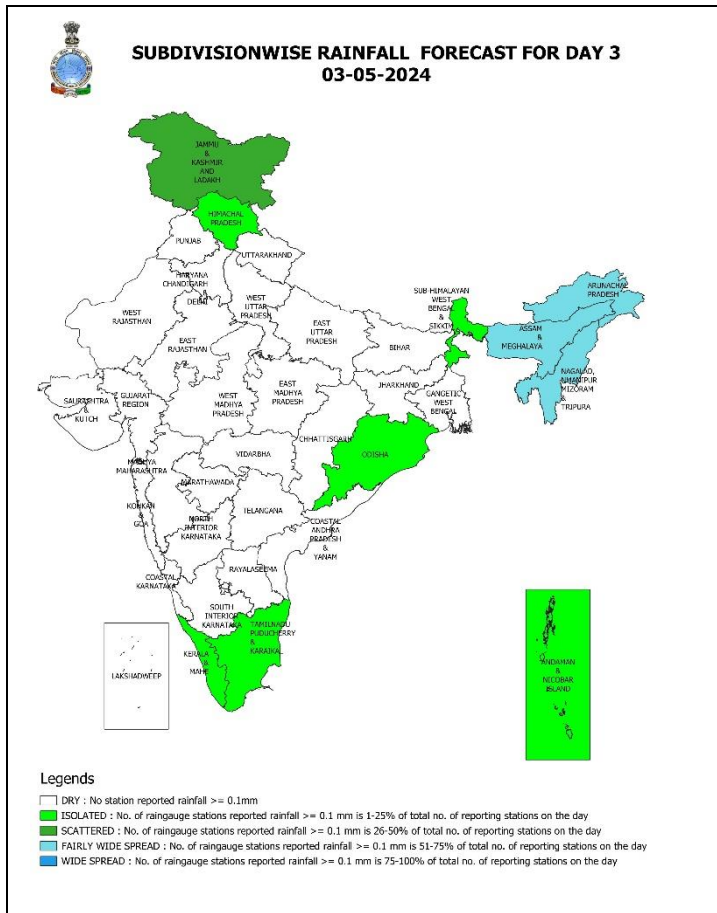
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph) & hailstorm** very likely at isolated places over Sikkim; **with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- ❖ **Heavy to very heavy rainfall** very likely at isolated places over Arunachal Pradesh; **Heavy rainfall** at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- ❖ **Hot and humid weather** very likely to prevail over west Assam & Meghalaya, Tripura, Saurashtra & Kutch, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail at many places over Gangetic West Bengal; at a few places over Bihar, Odisha; in isolated pockets over Jharkhand, Saurashtra & Kutch; **heat wave conditions** in isolated pockets over Sub-Himalayan West Bengal, Konkan, Marathwada, Madhya Maharashtra, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over East Madhya Pradesh, Bihar, Gangetic West Bengal, Odisha and North Interior Karnataka.



**02 May (Day 2):**

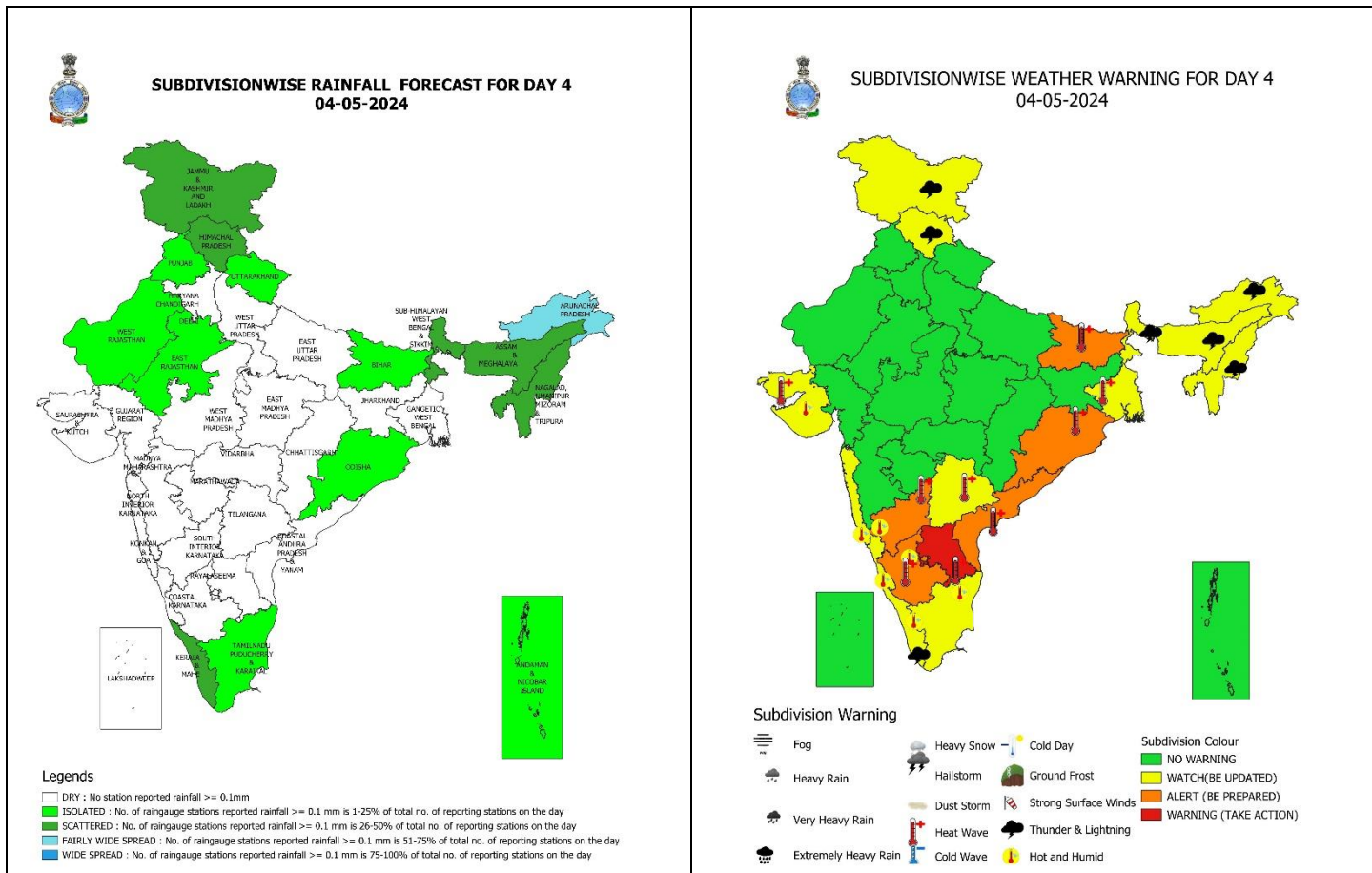
- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Sikkim; **with lightning** at isolated places over Arunachal Pradesh, Tamil Nadu and Kerala & Mahe.
- ❖ **Heavy to very heavy rainfall with extremely heavy falls** very likely at isolated places over Assam & Meghalaya; **Heavy to very heavy rainfall** at isolated places over Arunachal Pradesh and Mizoram & Tripura and **heavy rainfall** at isolated places over Nagaland, & Manipur.
- ❖ **Hot and humid weather** very likely to prevail over Konkan, Saurashtra & Kutch, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Heat wave to severe heat wave conditions** very likely to prevail at many places over Gangetic West Bengal; at a few places over Bihar, Odisha; in isolated pockets over Rayalaseema and Saurashtra & Kutch; **heat wave conditions** in isolated pockets over Jharkhand, Sub-Himalayan West Bengal, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ **Warm night conditions** very likely to prevail in isolated pockets over East Madhya Pradesh, Bihar, Odisha and North Interior Karnataka.





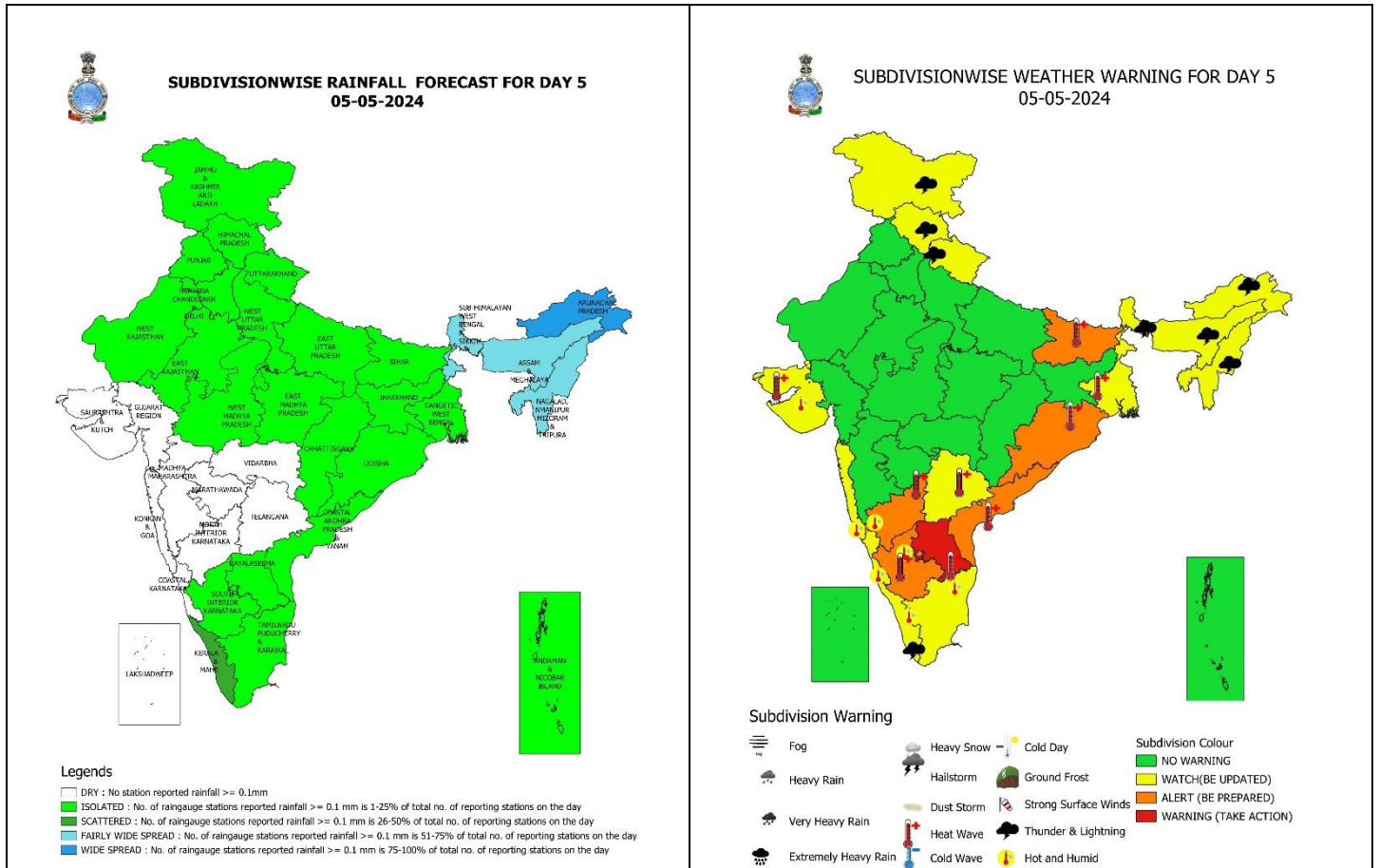
### 03 May (Day 3):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Sikkim, Assam & Meghalaya; **with lightning** at isolated places over Himachal Pradesh, Arunachal Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ **Heavy rainfall** likely at isolated places over Nagaland & Manipur.
- ❖ **Hot and humid weather** likely to prevail over Konkan, Saurashtra & Kutch, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in isolated pockets over Saurashtra & Kutch and Rayalaseema; **heat wave conditions** in some parts over Gangetic West Bengal; in isolated pockets over Bihar, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over East Madhya Pradesh and North Interior Karnataka.



## 04 May (Day 4):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Himachal Pradesh, Arunachal Pradesh and Kerala & Mahe.
- ❖ **Hot and humid weather** likely to prevail over Konkan, Saurashtra & Kutch, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in isolated pockets over Saurashtra & Kutch and Rayalaseema; **heat wave conditions** in isolated pockets over Gangetic West Bengal, Bihar, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Interior Karnataka.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over East Madhya Pradesh and North Interior Karnataka.

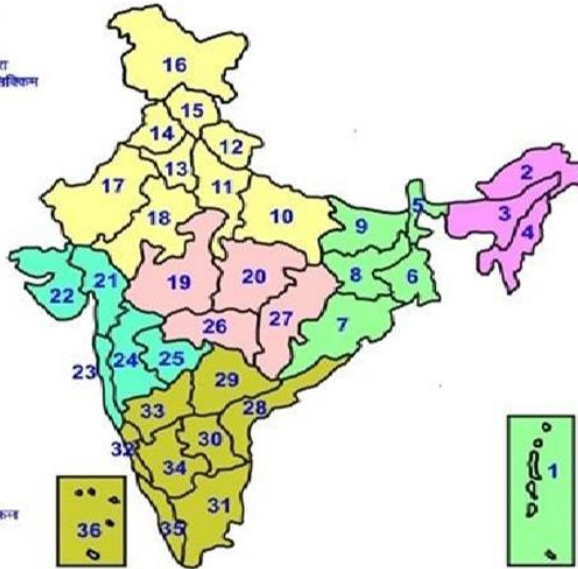


## 05 May (Day 5):

- ❖ **Thunderstorm accompanied with lightning, gusty winds (speed reaching 40-50 kmph)** likely at isolated places over Sikkim; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; **with lightning** at isolated places over Uttarakhand, Himachal Pradesh, Arunachal Pradesh and Kerala & Mahe.
- ❖ **Hot and humid weather** likely to prevail over Konkan, Saurashtra & Kutch, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ **Heat wave to severe heat wave conditions** likely to prevail in isolated pockets over Saurashtra & Kutch and Rayalaseema; **heat wave conditions** in isolated pockets over Gangetic West Bengal, Bihar, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Interior Karnataka.
- ❖ **Warm night conditions** likely to prevail in isolated pockets over East Madhya Pradesh and North Interior Karnataka.

## LEGENDS

- 1 अंडमन और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप-हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखण्ड
- 13 हरियाणा, चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सागरा
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठवाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तेलंगाना
- 29 तेलंगाना
- 30 तेलंगाना
- 31 तेलंगाना
- 32 तेलंगाना
- 33 तेलंगाना
- 34 तेलंगाना
- 35 तेलंगाना
- 36 तेलंगाना



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnada, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

## WARNING

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

## Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

## LEGENDS

### WARNING

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm\*  
Extremely Heavy: > 204.4 mm/cm \*



Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



Cold Wave

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  & actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

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